

## ELECTRONIC INTERPRETATION OF FINANCIALS

### FIELD AND BACKGROUND OF THE INVENTION

5       The present invention relates to analysis of financial information of an (economic and/or legal) entity.

Financial analysis typically involves two phases. The first phase is the number crunching phase. An entity's financial numbers, for example from the entity's financial statements such as the income statement, balance sheet, cash flow statement, and/or 10 statement of stockholders' equity, notes that are used to calculate financial ratios, percentages of total assets or sales, percentage or dollar change from previous periods, variations in percentages of total assets or sales compared to previous periods, variations in percentages of total assets or sales compared to industry averages or other entities, etc. Often, the first phase is performed by an electronic system, programmed to 15 perform predetermined calculations.

The second phase is the interpretation of the results of the calculations. Typically the calculation results are interpreted by a financial analyst internal or external to the entity whose financials are being analyzed. For example, financial analysts are employed by investment banks to recommend appropriate stock buys.

20      There are a number of problems with the above approach. First, there is typically a lack of customization, flexibility and modularity because the electronic system performs the same calculations, regardless of the characteristics of the analyzed entity and/or the preferences of the user of the electronic system. Second, the interpretation relies inter-alia on the integrity, experience, talent, professionalism, objectivity and 25 ability of the financial analyst. A particular financial analyst may be biased in his or her

interpretation of the calculation results, may fail to grasp the significance of a given output and/or is subject to human error. Third, not everyone may have access to the expertise of a financial analyst or alternatively the ability to interpret the calculation results by oneself. Note that the specified analysis procedure requires considerable time  
5 and cost resources.

In the related art, US 20020019791A to Goss et al describes an electronic system which provides financial advice based on personal data and financial objectives entered by users, by means of a rules engine. The rules engine detects whether the financial objectives match the personal data provided by the user and issues a challenge, or  
10 initiates a communication with a financial adviser, if they do not. The system stores general financial information and automatically provides updated financial advice to the user when the general financial information changes. The financial advice is in the form of a document compiled from text passages selected by matching predefined values to the user's personal data. The data and rules used to generate the financial advice are  
15 stored so as to be available for inspection, to demonstrate compliance with financial regulations.

## SUMMARY OF THE INVENTION

According to the present invention there is provided a method of electronically analyzing primarily financial information of an entity, comprising: receiving primarily  
20 financial inputs related to an entity ; and for at least one predetermined relationship: looking up which at least two variables are linked to the predetermined relationship, determining values of the at least two linked variables, evaluating the relationship using the determined values, selecting less than all interpretative paragraphs associated with the relationship based on results of the evaluating, and outputting the selected less than  
25 all paragraphs.

According to the present invention there is also provided a system for electronically analyzing primarily financial information of an entity, comprising: at least one storage configured to store a plurality of relationships, variables linked to the plurality of relationships and interpretive paragraphs associated with the plurality of relationships; an input configured to receive primarily financial inputs related to an entity; a calculator configured to calculate values of the variables from the received inputs; an evaluator configured to evaluate the relationships for the values of the variables; a selector configured to select less than all paragraphs associated with the relationships based on results of the evaluator; and an output configured to output the selected less than all paragraphs.

According to the present invention there is further provided a method for electronically analyzing primarily financial information of an entity, comprising: receiving primarily financial inputs related to an entity; and outputting a textual description and interpretation of a financial state of the entity.

According to the present invention there is still further provided a system for electronically analyzing primarily financial information of an entity, comprising: an input for receiving primarily financial inputs related to an entity; and an output for outputting a textual description and interpretation of a financial state of the entity.

According to the present invention there is provided a method of electronically analyzing primarily financial information of an entity, comprising: receiving primarily financial inputs related to an entity; and for at least one predetermined relationship: looking up which at least one variable is linked to the predetermined relationship, determining a value of the at least one linked variable, evaluating the relationship using the determined value, selecting or not selecting at least one of at least one interpretative paragraph associated with the relationship based on results of the evaluating, and if at

least one of said paragraphs has been selected, outputting the selected at least one of the paragraphs.

According to the present invention there is also provided a system for electronically analyzing primarily financial information of an entity, comprising: at least 5 one storage configured to store a plurality of relationships, variables linked to the plurality of relationships and interpretive paragraphs associated with the plurality of relationships; an input configured to receive primarily financial inputs related to an entity; a calculator configured to calculate values of the variables from the received inputs; an evaluator configured to evaluate the relationships for the values of the 10 variables; a selector configured to select or not select interpretive paragraphs associated with the relationships based on results of the evaluator; and an output configured to output any selected paragraphs.

According to the present invention there is provided a program storage device readable by machine, tangibly embodying a program of instructions executable by the 15 machine to perform method stages of electronically analyzing primarily financial information of an entity, comprising: receiving primarily financial inputs related to an entity ; and for at least one predetermined relationship: looking up which at least two variables are linked to the predetermined relationship, determining values of the at least two linked variables, evaluating the relationship using the determined values, selecting 20 less than all interpretative paragraphs associated with the relationship based on results of the evaluating, and outputting the selected less than all paragraphs.

According to the present invention there is also provided a computer program product comprising a computer useable medium having computer readable program code embodied therein for electronically analyzing primarily financial information of an 25 entity, the computer program product comprising: computer readable program code for

causing the computer to receive primarily financial inputs related to an entity ; and computer readable program code for causing the computer to for at least one predetermined relationship: look up which at least two variables are linked to the predetermined relationship, determine values of the at least two linked variables,  
5 evaluate the relationship using the determined values, select less than all interpretative paragraphs associated with the relationship based on results of the evaluating, and output the selected less than all paragraphs.

According to the present invention there is further provided a program storage device readable by machine, tangibly embodying a program of instructions executable  
10 by the machine to perform method stages of electronically analyzing primarily financial information of an entity, comprising: receiving primarily financial inputs related to an entity; analyzing primarily financials of an entity, based on said inputs; and outputting a textual description and interpretation of a financial state of the entity.

According to the present invention there is still further provided a computer  
15 program product comprising a computer useable medium having computer readable program code embodied therein for electronically analyzing primarily financial information of an entity, the computer program product comprising: computer readable program code for causing the computer to receive primarily financial inputs related to an entity; analyzing primarily financials of an entity, based on said inputs; and  
20 computer readable program code for causing the computer to output a textual description and interpretation of a financial state of the entity.

According to the present invention there is provided a program storage device  
readable by machine, tangibly embodying a program of instructions executable by the  
machine to perform method stages of electronically analyzing primarily financial  
25 information of an entity, comprising: receiving primarily financial inputs related to an

entity; and for at least one predetermined relationship: looking up which at least one variable is linked to the predetermined relationship, determining a value of the at least one linked variable, evaluating the relationship using the determined value, selecting or not selecting at least one of at least one interpretative paragraph associated with the 5 relationship based on results of the evaluating, and if at least one of the paragraphs has been selected, outputting the selected at least one of the paragraphs.

According to the present invention there is also provided a computer program product comprising a computer useable medium having computer readable program code embodied therein for electronically analyzing primarily financial information of an 10 entity, the computer program product comprising: computer readable program code for causing the computer to receive primarily financial inputs related to an entity; and computer readable program code for causing the computer to for at least one predetermined relationship: look up which at least one variable is linked to the predetermined relationship, determine a value of the at least one linked variable, 15 evaluate the relationship using the determined value, select or not select at least one of at least one interpretative paragraph associated with the relationship based on results of the evaluating, and if at least one of the paragraphs has been selected, output the selected at least one of the paragraphs.

## 20 BRIEF DESCRIPTION OF THE DRAWINGS

The invention is herein described, by way of example only, with reference to the accompanying drawings, wherein:

FIG. 1 is a flowchart of a method of electronically analyzing financial information of an entity, in accordance with a preferred embodiment of the present 25 invention;

**FIG. 2** is a block diagram of a system for electronically analyzing financial information of an entity, in accordance with a preferred embodiment of the present invention;

**FIG. 3** is an example of part of a look up table listing relationships and linked variables, in accordance with a preferred embodiment of the present invention;

**FIG. 4** is a flowchart of a method of electronically analyzing financial information of an entity, in accordance with another preferred embodiment of the present invention; and

**FIG. 5** is a block diagram of a system for electronically analyzing financial information of an entity, in accordance with another preferred embodiment of the present invention.

## **DESCRIPTION OF THE PREFERRED EMBODIMENTS**

The description below refers occasionally to Appendices A-K attached herewith and entitled:

15        Appendix A is a balance sheet of Impreso, Inc.;

Appendix B is an income statement of Impreso, Inc. ;

Appendix C is a cash flow statement of Impreso, Inc.;

Appendix D illustrates calculations of values of balance sheet related variables for Impreso, Inc.;

20        Appendix E illustrates calculations of values of income statement related variables for Impreso, Inc.;

Appendix F illustrates interpretive texts in the database which are associated with a fifth sample relationship, in accordance with a preferred embodiment of the present invention;

Appendix G illustrates interpretive paragraphs in the database which are associated with a sixth sample relationship, in accordance with a preferred embodiment of the present invention;

5 Appendix H illustrates interpretive paragraphs in the database which are associated with a seventh sample relationship, in accordance with a preferred embodiment of the present invention;

Appendix I illustrates calculations of values of cash flow statement related variables for Impreso, Inc.;

10 Appendix J illustrates interpretive paragraphs in the database which are associated with a eighth sample relationship, in accordance with a preferred embodiment of the present invention;

Appendix K illustrates interpretive paragraphs in the database which are associated with a ninth sample relationship, in accordance with a preferred embodiment of the present invention;

15 The present invention is of a method and system for electronically interpreting the financials of an entity, for example the financial statements or financial data of an entity. The entity can be inter-alia one or more non-profit organization, one or more governmental agency, one or more public company, one or more private company, one or more partnership, one or more joint venture, one or more corporate, one or more 20 conglomerate one or more family, one or more person, etc.

Note that the method and system of the invention can be implemented, in advance, thereby providing a repertoire of off-the-shelf reports of various entities, each including interpretation of financials of an entity. Alternatively, the method and system of the invention can be implemented on ad-hoc basis (i.e. upon user request) for 25 providing a report that includes interpretation of financials of an entity of interest.

Note also that whenever reference is made to previous period(s) it likewise applies to corresponding or parallel periods.

In one preferred embodiment, a list of predetermined financial relationships are interpreted. In another preferred embodiment, the predetermined relationships on the list 5 are selectively interpreted depending on results of significance tests, if any, associated with a particular relationship and/or whether a particular relationship conforms to criteria defined by a user of the electronic system.

The principles and operation of electronic interpretation of financials of an entity according to the present invention may be better understood with reference to the 10 drawings and the accompanying description. All examples below are non-limiting illustrations of the invention described and defined herein.

For the sake of illustration, the financial statements of a public company, Impreso, Inc will be discussed. The usage of the financial statements of Impreso, Inc is arbitrary and has no bearing on the invention. The balance sheet, income statement, and 15 cash flow statement of Impreso, as published, are shown in Appendices A, B and C. respectively. In the description below, the given period is assumed to be year ended August 31, 2001 and the preceding period is assumed to be year ended August 31, 2000. Note that there are errors on the published cash flow statement for net cash used in investing activities, net increase/decrease in cash and end of year cash for years 1999 20 and 2000. These errors are rectified in -Appendix I. The invention is not bound by the specified financial statements and accordingly other forms of financial statements and/or financial data may be used.

A method of a preferred embodiment of the invention is shown in Fig. 1. A preferred embodiment of an electronic system 500 to execute the method of Figure 1 is 25 shown in Figure 2. System 500 can be made up of any combination of software,

hardware and/or firmware. For example, system 500 can be inter-alia a computer, a land telephone device, a cellular telephone device, a personal digital assistant PDA, a software program, a programmable chip, etc. The division into modules shown in Figure 2 are for ease of understanding and in other embodiments a module may be 5 separated into a plurality of modules or alternatively combined with other modules. System 500 may be located at a user location, for example on a user personal computer or system 500 may be located remotely from a user, for example on a server with which the user communicates via, say the Internet or through cellular infrastructure.

In stage 402, an input 502 of electronic system 500 receives inputs, primarily 10 financial, related to an entity. Although the receiving is shown as one stage, it should be evident that not all inputs need to be necessarily received by system 500 at the same time. The received financials of an entity, i.e. inputs related to the entity can include one or more of the following inter-alia: partial or complete entity income statement for a given period, partial or complete entity income statement for previous period(s), partial 15 or complete entity balance sheet for the given period, partial or complete entity balance sheet for previous period(s), partial or complete entity statement of cash-flow for the given period, partial or complete entity statement of cash flow for previous period(s), partial or complete entity statement of stockholders' equity for the given period, partial or complete entity statement of stockholders' equity for previous period(s), entity 20 footnotes from the quarterly or annual report, for example those appearing on the financial statements, number of years of entity operation, currency, length of period (for example annual or quarterly), entity labor force size, entity plant size, number of countries where entity has a presence, macro-economic factors (for example prime rate, inflation rate, currency exchange rates), industry averages, competitor (herein below 25 including a plurality of competitors) and/or other entity information such as financials,

notes of the financial statements, text data, risk analysis, problems of hedging stock exchange data valuation by analysts, taxation, etc. Whenever applicable, the input can be received *inter alia* as a standard input format (such as 10K format), directly (or after conversion) from the accounting system or information system, etc.

5 Note that inputs such as macro-economic factors, industry averages, and competitor and/or other entity information, etc. are also considered herein below as relating to the entity because these inputs may affect the performance or the interpretation of the performance of the entity. The input may further include also qualitative information, from internal or external sources, e.g., resignation of  
10 management, substantial court suits, comments in the CPA report etc.

Techniques in which inputs can be received by electronic system 500 are well known in the art and include inter alia one or a combination of the following: scanning (possibly with an associated character recognition modules), keyboard entering, pull down menus, voice input receipt via a communication medium such as a cellular  
15 network or the Internet in an automatic or non-automatic fashion by push or pull, downloading from Internet sites, etc. Depending on the techniques supported by a particular embodiment, input 502 includes the means which allows those techniques, for example a keyboard, a mouse, a connection to a communication medium, a stylus, voice recognition system, etc.

20 For example for keyboard entering, in one embodiment the user may enter the inputs of an entity onto a template which is processed by electronic system 500, whereas in another embodiment, the user may enter the financial inputs in a format corresponding to the published financial statements of the entity.

In one embodiment, the user selects from pull down menus the values of certain  
25 inputs from among predefined possibilities, for example the user selects whether the

entity handles goods or provides a service, the industry to which the entity belongs (for example food, textile, etc), the country where the entity is headquartered, the currency, the period (for example first quarter 2002), etc.

In one embodiment, system 500 receives automatic (or manual) updates of  
5 industry averages and/or macro-economic factors from Internet sites or other source on a periodic or continuous basis (i.e. input 502 is connected to a communication medium in order to receive these updates). Examples of sites from which system 500 may receive updates include inter alia financial newspapers on-line, accounting firm sites, information agency sites such as Bloomberg or Reuters, sites which specialize in  
10 gathering business information, Industry surveys, databases (e.g. Dialog), sites (e.g. (EDGAR), governmental and/or public information sources, etc.

In one embodiment, system 500 receives entity inputs which were input by the user previously, for example inputs related to previous period(s), from an external storage, for example from a storage disk or web server. In one alternative embodiment,  
15 previously received inputs are retained by system 500 for example in a memory 504 and receiving stage 402 for these previously received inputs relates to the earlier point in time at which these inputs were received.

Optionally, the received inputs are checked for accuracy by an optional input verifier 524, for example to verify that an input balance sheet balances, that an input net income equals a net income calculated from other income statement inputs, etc. In some  
20 of these optional embodiments, the user is consulted or informed if there is an error while in other of these optional embodiments, the errors are corrected without consultation or notification of the user. An example of the latter option (where automatic error correction is implemented) is a scenario in which the Impreso published  
25 cash flow statement (presented in Appendix C) were scanned into system 500, and

verifier 524 would correct the errors in the inputs on the cash flow statement prior to using those inputs in calculations.

Also optionally, the inputs can be converted to a desired currency by an optional currency converter 526. For ease of explanation in the description below it is assumed  
5 that the described inputs have been received in or converted to the US currency as is the case for Impreso, Inc..

Also optionally (not shown in the Figures), the input is categorized by state/country, possibly broken down by, say industry and or sector (according to user selection). Note that the system may store repertoire of reports, surveys, analysis and  
10 macro economic parameters (possibly categorized by state/country, and if desired, broken down by, say industry and or sector) which may be subjected to automatic and/or manual updates in pre-defined or ad-hoc frequency.

Optionally inputs may be annualized (or other period), for example using a calculator 510. For ease of explanation in the description below it is assumed that the  
15 described inputs are for a 12 month period, as is the case for the illustrated financial statements of Impreso, Inc.

System 500 can also include an optional dictionary 528 to provide an explanation of a term used by the system, a definition of an acronym to the user, etc. For example an entry for COGS can state "COGS is an acronym for cost of goods sold and  
20 is a figure representing the cost of buying raw materials and producing finished goods...". Alternatively and optionally, system 500 can be linked to an external dictionary through a communication medium. In one embodiment with a dictionary option, dictionary 528 or the external dictionary includes extensive information on financial topics and is therefore similar to an encyclopedia.

For ease of explanation, the inputs are assumed to be stored in memory 504, at least until the inputs are no longer required for performing the method of Figure 1 or as long as the user requires them.

In stage 420, system 500 proceeds in a predetermined order to analyze a 5 predetermined list 506 of financial relationships. Associated with the financial relationships are one or more paragraphs stored in a database 514, indexed for example by relationship.

In stage 428, system 500 looks up which variables are linked to relationship<sub>i</sub> (where i ranges from 1 to the number of relationships in list 506). For example, system 10 500 can consult a look-up table 508 whose entries are indexed by relationship. In stage 430, the values of the linked variables for relationship<sub>i</sub> are determined, for example through computation by calculator 510, or through retrieval from a memory such as memory 504 if the values had been previously computed and stored.

If computation is necessary, the value for each linked variable may preferably be 15 calculated from one or more inputs. For example a particular variable may be identical to an input. In another example, a particular variable may represent one input as a percent of another input, as is common when calculating entity, competitor and/or other entity, and/or industry common size statements for a period. In another example, a variable may represent the dollar change between two or more inputs, with a first input 20 corresponding to a first period and a second input corresponding to a following period. In another example, a variable may represent the percentage change between two or more inputs, with a first input corresponding to a first period and a second input corresponding to a following period, etc.. In another example, a variable may represent a change in percent of total assets or percent of sales between periods. In another 25 example, a variable may represent a difference in percent of total assets or percent of

sales between an entity and the industry average or competitor (and/or other entity). In another example, a variable can represent a difference or a sum of a plurality of inputs, for example represent EBITDA or EBIT. In another example, a variable may represent a financial ratio, such as for example activity ratios (inventory turnover, days inventory, accounts receivable turnover, days accounts receivables, working capital turnover, fixed assets turnover, total assets turnover, etc.) liquidity ratios (days payable, current ratio, quick ratio, cash ratio, cash flow from operations ratio, defensive interval, etc.), solvency ratios (debt to total capital, debt to equity, total debt at book value to equity at market, times interest earned, fixed charge coverage, times interest earned (cash basis), fixed charge coverage ratio (cash basis), capital expenditure ratio, cash from operations to total debt, etc), Altman ratio (z-score analysis), or profitability ratios (gross margin, operating margin, margin before interest and tax, pretax margin, profit margin, contribution margin, return on assets, return on common equity, return on total equity, operating leverage effect, financial leverage effect, etc) for an entity, competitor or the industry to which the entity belongs. In another example, a variable can represent a weighted average of a plurality of financial ratios. In another example, calculation of a variable may depend on the values of non-financial inputs; for example variables can represent sales per employee, sales per square meter of plant, average growth over entity life, position in life cycle, etc. In another example calculation of a variable may depend on statistical relationship calculation (e.g. seasonal variation, correlation, moving averages, stochastic analysis, queuing), and use of other financial, managerial, mathematical, statistical, econometric, and other similar models and theorems and analysis tools.

In stage 432 the relationship is evaluated by an evaluator 512 using the determined values of the linked variables. Depending on the results of the evaluation

and the number of paragraphs associated with the relationship, no paragraph or at least one paragraph from paragraph database 514 may be selected as appropriate for the analyzed entity by a selector 516 in stage 434. Stages 432 and 434 can be implemented, for example, by computer code including “if ... then” statements.

5       For example, evaluation of a particular relationship may include comparing the magnitude of one or more of the determined values with one another. In this example, the paragraphs selected correspond to the variables with the larger (or smaller) values. Continuing with the example, the definition of this particular relationship on list 506 may be for example “compare values, select two largest” (stated in any appropriate format). In another example, evaluation of a particular relationship may include 10 checking the magnitude of one or more of the determined values against predetermined levels (i.e. thresholds or limits) to determine which magnitudes, if any, are significant. The selected paragraph(s) will depend on which values were determined to be significant. Continuing with the example, the definition of this particular relationship on 15 list 506 may be for example “compare value1 against threshold1, compare value2 against threshold2, characterize values above threshold as significant” (stated in any appropriate format). In another example, evaluation of a particular relationship may include verifying that all required values have been or can be determined (from available inputs) and if not determinable, omitting the selection of an associated 20 paragraph. Continuing with the example, the definition of this relationship on list 506 may be for example “if value1 or value2 missing, relationship fail” (stated in any appropriate format). If desired, such indication can also appear at the output.

It should be evident that evaluation of a particular relationship may include more than one stage, with a different evaluation performed in each stage. For example, in one 25 embodiment, evaluation of any relationship may include verifying that all required

values have been or can be determined while evaluation of some relationships also includes other stages such as comparing magnitudes of values with one another or against predetermined levels.

Depending on the embodiment, predetermined thresholds and/or limits for  
5 values may be constant (i.e. the predetermined thresholds and/or limits for a particular relationship do not change no matter what of the entity) and/or may change depending on the entity. In one embodiment, thresholds and/or limits expressed in percents are constant whereas thresholds and/or limits expressed in a currency (for example dollar amount) are scaled depending on the entity. For example, system 500 may store dollar  
10 thresholds and/or limits for a sample entity with \$100,000,000 in annual sales, and these thresholds and/or limits are scaled by dividing the actual annualized sales of the analyzed entity by \$100,000,000.

In some cases, the selected paragraph(s) requires adaptation to the analyzed entity. An adapter 518, performs the adaptation in stage 435, for example by filling in  
15 one or more of the determined values of the linked variables into the selected paragraph(s). In another example, adapter 518 may call calculator 510 to calculate other values (of non-linked variables) which are required to be substituted into the selected paragraph(s) in addition to or instead of the determined linked variable values. In another example, a ranking of determined values, for example rating a financial ratio as  
20 reflecting a poor to outstanding performance, may also or instead be substituted into the selected paragraph(s). If the paragraph concerns for example a macro-economical review (say for a given country), adaptation may require filling in updated pertinent numerical figures (which are updated , say per quarter).

In stage 436 the selected and possibly adapted paragraph(s) is output through an output 520, for example to a display, printer, fax, land telephone device, cellular telephone device, transmitter TV, PDA, etc..

Preferably, the output paragraphs for all evaluated relationships are consolidated  
5 so that the paragraphs can be presented to the user in the form of a report, file, slide-  
show, audio-show or video etc.. It should be evident that the output paragraphs  
associated with each evaluated relationship does not necessarily need to be output  
and/or presented in the same order in which the associated relationships were evaluated.  
For example, in one embodiment, results of relationship evaluations which are  
10 worrisome (for example results which impact the entity's ability to continue as a going  
concern) may be output and/or presented first. In another example, in one embodiment,  
for customization reasons the order of output or presentation of paragraphs is varied, for  
example based on, e.g. a user profile/ preference or randomly. In another example,  
paragraphs which are considered associated are presented next to each other, for  
15 example paragraphs related to the same item on a financial statement are presented next  
to each other.

Optionally, standardized paragraph(s) which do not require selection or  
adaptation depending on the analyzed entity may also be output in stage 436, for  
example, definition paragraph(s) of financial terms, etc.

20 Optionally system 500 also includes graphics capabilities 522 so that in addition  
to the output text, graphs and/or charts can be created and output in stage 438 to  
illustrate the evaluated relationships. For example charts of ratios, ranks and/or  
percentages showing comparisons with previous periods, industry averages a  
competitor and/or other entity may be created and output. It should be noted that the  
25 results of the evaluation of relationships can also impact the output charts and graphs

(see examples below). Note, that the invention is not bound by a particular manner of outputting the data, and accordingly known per se output formats (such as: text, audio, video and or combination thereof) may be applicable in either pre-defined, or user customized manner, all as required and appropriate.

5 Note also that the term paragraph encompasses any adage and/or text and/or terms and/or phrase and/or expression and/or interpretive paragraph and/or interpretive text and/or assertion etc., which may also be combined with any of symbols and/or drawings and/or diagrams and/or graphs and/or animation and/or cartoons and/or means of illustration and/or means of voice/sign/code etc.

10 Figure 3 shows an example of part of a look up table 508 illustrating the linked variables for a number of relationships which will be discussed below to further illustrate a preferred embodiment of the invention. It should be evident that in many embodiments, a large number of relationships are evaluated for a particular entity and that the relationships presented below should only be viewed as examples of potential  
15 relationships which can be evaluated for a given entity.

For example, a relationship<sub>1</sub> 602 may concern a (linked) variable 604 representing the percentage change in total assets from the period preceding the given period to the given period, (i.e. total assets at the end of the given period less total assets at the end of the preceding period divided by total assets at the end of a preceding  
20 period). For illustration purposes Appendix D presents some calculations of the values of balance sheet related variables for Impreso which are used in the examples presented herein below. In stage 430, the value of variable 502 is determined, i.e. total assets grew by 58% from August 31, 2000 to August 31, 2001 (calculation D702) and this has the following .... Management/ economic/business/financial bearings. In this example it is  
25 assumed that there is only one paragraph associated with relationship<sub>1</sub> 602. In the

evaluation of relationship<sub>1</sub> 602 in stage 432, as long as the value of variable 604 can be determined (i.e. total assets at the end of the preceding period and at the end of the given period are received as inputs or can be computed from other inputs), then in stage 434 this associated paragraph is selected and in stage 435 adapted for the determined 5 value. For example the paragraph output in stage 436 may be “The change in total assets from the preceding period was +58%”, where underlined characters herein below represent the adaptation of a selected paragraph by filling in value(s).

In another example a relationship<sub>2</sub> 606 may concern a (linked) variable of current assets as a percentage of total assets 608. Relationship<sub>2</sub> 606 can be for example 10 one of a series of relationships involving common size balance sheets and/or income statements (i.e. each item on the balance sheet as a percentage of total assets and/or each item on the income statement as a percentage of total sales), for the entity, industry and/or competitor and/or other entity. Continuing with the example, current assets as a percentage of total assets 608 is calculated to be 82% for the year ended August 31, 15 2001 (calculation D704). Again assume only one paragraph is associated with the relationship. In the evaluation of relationship<sub>2</sub> 606 in stage 432, as long as the value of variable 608 can be determined (i.e. current assets as a percentage of total assets is received as an input or can be computed from other inputs), then in stage 434 this associated paragraph is selected. The associated paragraph is adapted for the computed 20 value of variable 608. The output paragraph can state for example “Current assets represented 82% of total assets at the end of the period and this has the following .... Management/ economic/ business/ financial bearings”. Continuing with the example, the output paragraph can be presented for example in proximity to paragraphs stating 25 the values of current assets as a percent of assets for the preceding period and current assets as a percent of assets for the industry and/or competitor.

In another example, a relationship<sub>3</sub> 610 may concern the gross profitability ratio (AKA gross margin) which equals gross profit divided by sales (linked) variable 612. For illustration purposes Appendix E presents some calculations of the values of income statement related variables for Impreso which are used in the examples presented herein

5 below. Gross profit as a percentage of sales for Impreso is calculated at 12% (calculation E802). Assume there is one paragraph associated with relationship<sub>3</sub> 610. In the evaluation of relationship<sub>3</sub> 610 in stage 432, as long as the value of variable 612 can be determined (i.e. gross profit divided by sales is received as an input or can be computed from other inputs), then in stage 434 this associated paragraph is selected.

10 The associated paragraph is adapted for the value of variable 612 and output. For example the paragraph may state: "The gross margin for the entity during the period was 12% and this has the following .... Management/ economic/business/financial bearings". Continuing with the example, this output paragraph can be for example presented in proximity to paragraphs stating the gross margin for the preceding period

15 and for the industry, entity and/or competitor.

In another example, relationship<sub>4</sub> 614 may concern a solvency ratio, liabilities divided by equity (linked) variable 616. For Impreso, total liabilities/equity equals 3.2 (calculation D708). Assume again that there is only one associated paragraph to relationship<sub>4</sub> 614. In the evaluation of relationship<sub>4</sub> 614 in stage 432, as long as the

20 value of variable 616 can be determined (i.e. liabilities divided by equity is received as an input or can be computed from other inputs), then in stage 434 this associated paragraph is selected. In stage 435, the associated paragraph is adapted to: "The solvency ratio for the company as represented by total liabilities/equity was 3.2 at period end and this has the following .... Management/ economic/ business/financial

25 bearings". Continuing with the example, the associated output paragraph can for

example be presented in proximity to paragraphs stating the solvency ratio for the preceding period and for the industry, other entity and/or competitor. Note that the invention is not bound by these specific examples of relationships. Note also that the term "(linked) variable", is referred to occasionally in short as "variable".

5        Optionally, system 500 may rank the value of variable 616 on an absolute basis (for example a solvency ratio over 3 may be considered high-risk in one embodiment) or may rank the value with reference to the industry, other entity, competitor and/or previous (and/or corresponding parallel) period(s). If ranking is performed, the associated paragraph may for example be adapted in stage 435 to describe and /or  
10 interpret the rank. In addition or instead, the rank for example can affect the order of output (for example if the value reflects very high risk, the paragraph may be presented early on in a report, file, slide-show, audio-show or video etc. to attract user attention), and/or the rank for example can be shown graphically in stage 438. The ranking can take into account personalized/preference user factors (received as an input). For  
15 instance, with reference to "high risk" specified above, this may be determined, depending on personalized input. Thus, what would be regarded as high risk for one user (and would entail adaptation of a paragraph, as explained above) would not be regarded as such for other user (obviously, obviating the need to invoke the specified paragraph adaptation procedure).

20       Note also that when reference is made to "one paragraph", this likewise encompasses two or more substantially analogous paragraphs, in which the phrasing style is modified and /or other personalized factors are incorporated according to user preference. This allows to use one of possibly two or more different paragraphs (all having substantially the same meaning) for the same scenario, according to user  
25 preference or other paragraph selection criterion.

The next examples illustrate relationships that have more than one associated paragraph. Typically although not necessarily, relationships with more than one associated paragraph concern two or more linked variables. The determined values of the linked variables affect the selection of the associated paragraph(s) and possibly the  
5 adaptation of the selected paragraph(s). In certain embodiments, each one of the specified at least two paragraphs has no meaning by itself, however when integrated the at least two paragraphs give rise to the desired interpretation of the financial input.

For example, in stage 428 the linked variables for a relationship<sub>5</sub> 618 are presented in look up table 508 as: dollar change in accounts receivables from the end of  
10 the period preceding a given period to the end of the given period (variable 620), dollar change in sales from the preceding period to the given period (variable 622), and percentage change in days receivable period from the preceding period to the given period (variable 624). In stage 430, the values of the variables for Impreso are determined. Change in accounts receivables variable 620 equals \$2,833,986  
15 (calculation D712). Change in sales 622 equals \$22,090,750 (calculation E808). Percentage change in days accounts receivable 624 equals +1.53% (calculation D718), where days accounts receivable is defined in the example as (365\*ending accounts receivables/sales).

In stage 432, relationship<sub>5</sub> 618 is evaluated, where the evaluation is assumed to  
20 concern whether the values of each of variables 620, 622, and 624 represent a substantial increase, a substantial decrease or no substantial change. In this case, evaluator 512 concludes that there are substantial increases in change in accounts receivables variable 620 and change in sales variable 622 (for example because the values of variables 620 and 622 are each above a predefined threshold of \$1,000,000)  
25 but no substantial percentage change in days accounts receivable variable 624 (for

example because the value of variable 624 is below a predefined threshold of 5%).

These conclusions influence the selection of an interpretation text in stage 434.

Refer to Appendix F which shows examples of interpretive texts associated with relationship<sub>5</sub> 618 in database 514. Note that whilst Appendix F, each paragraph, say 902  
5 is a single, self contained, paragraph this is by no means binding. Thus, in accordance with another embodiment the interpretive text 902 can be composed of two or more distinct text portions.

Bearing this in mind, for this relationship<sub>5</sub> 618, the paragraphs are mutually exclusive so that only one may be selected (or none, for example if the values of all the  
10 variables could not be determined because of missing inputs). In this example, paragraph 904 is selected in stage 434 as the appropriate interpretation for the company because paragraph 904 corresponds to the case of substantial increases in accounts receivables variable 620 and sales variable 622 with a non-substantial percentage change in days accounts receivables variable 624.

15 Paragraph 904 requires the substitution of two values: the value of days accounts receivable in the given period and the value of days accounts receivable in the preceding period. Assuming these values have not been previously computed and stored, in stage 435 adapter 518 calls calculator 510 which computes 44.6 days (calculation D714) and 43.9 days (calculation D716) for days accounts receivable for the given period and days  
20 accounts receivable for the preceding period respectively. These values are substituted into selected paragraph 904 and adapted paragraph 904 is output in stage 436.

It should be evident that a similar relationship to relationship<sub>5</sub> 618 could have been defined which is linked to percentage change variables (i.e. percent change in accounts receivables, sales, days accounts receivable) and compares these percentage

change variables to predefined percent levels for significance in order to select a suitable interpretive paragraph.

In another example, relationship<sub>6</sub> 630 is linked to the entity percentage change in sales from the period preceding a given period to the given period (variable 632), and to 5 the industry average percentage change in sales from the period preceding a given period to the given period (variable 634). In stage 430 the value of variables 632 for Impreso is determined to be +29.8% (calculation E824). For the sake of illustration, it is assumed that industry averages are available and that variable 634 is calculated to be +20%. In stage 432 relationship<sub>6</sub> is evaluated, where the evaluation is assumed to 10 concern whether the change in sales is significantly positive (for example above a predefined threshold of 1%), significantly negative (for example below a limit of -1%) or substantially unchanged (for example between -1% and 1%) for each of the entity and the industry.

Refer to Appendix G which shows examples of interpretive texts associated with 15 relationship<sub>6</sub> 630 in database 514. In this example, paragraph 1002 is selected in stage 434 as the appropriate interpretation because paragraph 1002 corresponds to a significant increase in sales both in the industry and in the entity. Paragraph 1002 is adapted for the values of variables 632 and 634 in stage 435 and output in stage 436.

Assume now for the same relationship<sub>6</sub> 630 that percentage change in industry 20 sales 634 can not be determined, for example because no industry information was input or only industry information for the given period (and not for the preceding period) was input. In stage 432, during the evaluation of the relationship the missing industry value will be realized and therefore no paragraph will be selected for output, or alternatively the user will be prompted by, e.g. "missing input parameters and therefore analysis 25 cannot be provided". Depending on the embodiment, the inability to select an

appropriate paragraph for relationship<sub>6</sub> 630 may be communicated to the user (for example by outputting a list of relationships which could not be analyzed) or not (i.e. an interpretive paragraph for relationship<sub>6</sub> 630 will be omitted without user notification).

Similarly, in an alternative embodiment relationship<sub>6</sub> 630 can be linked to the  
5 entity percentage change in sales from the period preceding a given period to the given period, and to a competitor percentage change in sales from the preceding period to the given period (i.e. actual competitor(s) replacing the industry average).

In another example, assume relationship<sub>7</sub> 640 is linked to the dollar change in operating income from the period preceding a given period to the given period (variable  
10 642), the change in operating income as a percent of sales from the preceding period to the given period (variable 644), the percentage change in sales from the preceding period to the given period (variable 632), and the percentage change in operating expense from the preceding period to the given period (variable 646). It is assumed that the percent change in sales 632 had been previously calculated (calculation E824) and  
15 stored in memory 504 and is now retrieved in stage 430. The values of all other variables are assumed to not have been previously computed and are therefore computed in stage 430. The values are determined to be the following: variable 642 equals \$928,702 (calculation E820); variable 644 equals +.14% (calculation E822); variable 632 equals 29.8%, and variable 646 equals +29.6% (calculation E826).

Relationship<sub>7</sub> 640 involves evaluating whether there are (substantial) increases or decreases for each of variables 642, 644, 632, and 646. The results of the evaluation in stage 432 is that there is a (significant) increase in operating income 642 (for example above a predefined threshold of \$100,000), a similar significant percentage increase in sales 632 and operating expense 646 (for example above a predefined  
25 threshold of 5%), and an insubstantial increase in operating income as a percent of sales

644 (for example assuming a predefined system (absolute value) threshold of 1% for variable 644 to be considered substantial).

Refer to Appendix H which shows examples of interpretive texts associated with relationship, 640 in database. Interpretive paragraph 1122 corresponds to the case of a significant increase in operating income, a significant percentage increase in sales, a significant percentage increase in operating expense (similar to percentage increase in sales) and no significant change in operating income as a percent of sales. Therefore paragraph 1122 is selected in stage 434.

Paragraph 1122 is adapted by determining and filling in values for operating income for the given period \$3,583,774 (calculation E828), operating income for the preceding period \$2,655,022 (calculation E830), operating income as a percentage of sales 3.7% for the given period (calculation E832). In addition the determined value (+29.8%) of linked variable percentage change in sales 632 is filled in.

In another example, relationship<sub>8</sub> 648 is linked to the change in cash and cash equivalents from the period preceding a given period to the given period as a percentage of the change in total assets from the preceding period to the given period 650, cash flow from/for operating activities 652, cash flow from/for investing activities 654, cash flow from/for financing activities 656 and variables for types of financing activities, namely cash flow from/for stock activities 658, cash flow from/for debt activities 660, and cash flow for payment of dividend 662. For illustration purposes Appendix I presents some calculations of the values of cash flow statement related variables for Impreso which are used in the examples presented herein below. In stage 430 the value of variables 650,652,654,656,658, 660 and 662 are determined to be is determined to be 0.27% (calculation D720), \$5,138,552 (calculation I1202), -

\$13,734,574 (calculation I1204), \$8,658,027 (calculation I1206), -\$38,892 (calculation I1208), \$8,696,919 (calculation I1210), and zero (no dividend), respectively.

In stage 432, for the evaluation of relationship<sub>8</sub> a two stage comparison is made. In the first stage, the change in cash and equivalents as a percent of the change in total assets 650 is evaluated to be significantly positive, significantly negative or substantially unchanged. For example, the (absolute value) threshold may be set at 5% with any change 650 above 5% or below -5% considered significant. In the second stage which occurs if the conclusion of the first stage was that there was a significantly positive or negative change in cash and cash equivalents 650, the magnitudes of variables 652,654,656,658, 660 and 662 are compared to determine the most significant contributory factor(s) to the change. An appropriate interpretive paragraph is then selected in stage 434.

Refer to Appendix J which shows examples of interpretive texts associated with relationship<sub>8</sub> in database 514. In this example the change in cash and equivalents 650 is considered insignificant so paragraph 1320 is selected. Paragraph 1320 is adapted by filling in values of ending cash and equivalents for the preceding period and for the given period, \$149,527 (calculation D722) and \$211,352 (calculation D724) respectively, and the Management/ economic/business/financial meaning of these values is provided.

In some cases evaluation of the relationship in stage 432 may lead to the selection of more than one interpretative text which is associated with the relationship. For example, relationship<sub>9</sub> 670 evaluates the relationship between different types of current assets. Variables linked to relationship<sub>8</sub> 670 include cash 672, short term investments 674, accounts receivable 676, other current assets 678, and inventory 680. In stage 430, the values of the linked variables are determined as cash 672 equals

\$211,352 (calculation D724), short term investments 674 equals zero, accounts receivable 676 equals \$11,748,088 (calculation D726), other current assets 678 (here prepaid plus deferred taxes) equals \$350,956 (calculation D728), and inventory 680 equals \$38,459,817 (calculation D730). The evaluation of relationship<sub>9</sub> 670 is in order to  
5 choose the variables with the two largest values among variables 672,674,676,678 and 680. Here inventory 680 and accounts receivable 676 are chosen.

Refer to Appendix K which shows examples of interpretive texts associated with relationship<sub>9</sub> in database 514. In stage 434, paragraphs 1406 and 1410 corresponding to accounts receivable and inventory respectively (i.e. the two largest values) are selected.  
10 Paragraph 1406 is adapted by filling in the values of accounts receivable and accounts receivable as a percent of current assets (and the meaning of this values) and paragraph 1410 is adapted by filling in the values of inventory and inventory as a percent of current assets (and the meaning of this values). It should be noted that the results of the evaluation of relationship<sub>9</sub> (and the meaning of this relationship) can also impact output  
15 charts and graphs. For example a graph showing the breakdown in current assets may use the evaluation results of relationship<sub>9</sub> to group together categories, keeping the two largest categories, here inventory and accounts receivable, as separate categories and grouping together all other current asset categories.

Note that the output paragraph(s), or portion thereof, may be associated with an  
20 alert indication (referred to also as “red flag”) according to the significant degree of the their contents. For example, if a certain paragraph (or, say, a value incorporated in the output paragraph) indicates on a negative interpretation, an alert is provided for drawing the reader’s attention. This alert may be implemented by various means, such as placing the pertinent paragraph(s) at the top of the output report, highlighting the

specified paragraph(s) and/or providing any other desired alert means. This, likewise, applies to the event that positive interpretation is reported.

Note also, that for convenience, the system (e.g. of the kind depicted with reference to Fig. 2) can be associated with search means for facilitating fast text (and/or 5 other digits/symbols and other search items) search, e.g. in the output paragraph(s) report:

The method of another preferred embodiment is illustrated in Figure 4. An electronic system 1600 for implementing the method of Figure 4 is shown in Figure 5. System 1600 can be made up of any combination of software, hardware and/or 10 firmware. For example, system 1600 can be inter-alia a computer, a land telephone device, a cellular telephone device, a personal digital assistant PDA, a software program, a programmable chip, etc. The division into modules shown in Figure 5 are for ease of understanding and in other embodiments a module may be separated into a plurality of modules or alternatively combined with other modules. System 1600 may 15 be located at a user location, for example on a user personal computer, cellular telephone or system 1600 may be located remotely from a user, for example on a web server with which the user communicates via the Internet or any other remote means.

Only the differences in the method and system compared to the method and system of Figures 1 and 2 will be discussed below.

20 In optional stage 1516, a filter 1602 rearranges the order of evaluation of relationships, if desired. For example a user may prefer to have relationships relating to the income statement evaluated first or, for instance, in certain cases evaluated exclusively (i.e. no other relationship is to be evaluated). Therefore, referring back to Figure 3, relationship<sub>3</sub> 610 would be evaluated for example before relationship<sub>1</sub> 602. A 25 user may enter his or her preferences into input 502 through any known method, for

example, pull down menu selection, keyboard entering, voice recognition and analysis system, etc.

In stage 1524, the relationship is filtered by filter 1602 to determine if evaluation is desirable. If evaluation is not desirable, the relationship is excluded from evaluation.

5   Otherwise the method continues with stage 428

The criteria used by filter 1602 in stage 1524 to determine if evaluation is desirable for a particular relationship can be user-dependent and/or entity dependent.

For example, the user may have already calculated ratios and may not wish to receive output paragraphs describing those ratios. In another example, a user may only 10 wish to have relationships evaluated which link variables relating to industry averages with variables relating to the entity. In another example, the user may wish to only have relationships evaluated which link income statement variables. In another example, the user may only wish to evaluate relationships which are linked to certain specified variables. In another example, a user may wish to omit evaluation of relationships 15 which are linked to certain specified variables. In another example one user may wish to receive a short analysis (i.e. evaluation of a limited number of relationships), whereas another user may wish to receive an extensive analysis (i.e. evaluation of a large number of relationships). In another example, a user may wish to receive parts of the analysis at different times (i.e. have the evaluation of different sets of relationships performed at 20 different times). The user can input filtering criteria into input 502 in any known manner, for example pull down menu selection, keyboard entering, voice recognition and analysis systems etc.

Examples of entity dependent filtering include significance tests. For example, evaluation of a relationship may only be desirable if one or more variables are 25 significant for the analyzed entity. The variables tested for significance for a particular

relationship may in some cases only include one or more of the variables which are linked in the relationship (i.e. whose values are required to evaluate the relationship). In other cases the tested variables for a particular relationship may include variables which are not linked in the relationship. Significance can be relative (i.e. a variable is 5 significant if the value of the variable is large or small compared to certain other variables) or absolute (i.e. a variable is significant if the value of the variable is smaller or larger than a predetermined level, where the predetermined level may be constant or may change depending on the entity, and/or industry and or other entities-see above). In certain cases, the filtering may apply rules depending upon criterion such as the 10 business of the entity. For example, for public service related entity there is no need to take into account relationships which concern inventory, whereas for entity that deals with manufacture relationships which concern inventory are definitely relevant.

In a preferred embodiment, some relationships always qualify for evaluation (if not filtered out by the user) while others have one or more associated significance tests 15 performed in order to determine if the relationship should be evaluated.

For example, the method of Figure 4 can be applied to relationship 602, linked to change in total assets variable 604. Assume in this example that relationship 602 does not have any significance tests because relationship 602 is considered inherently desirable and therefore will always be evaluated, if not eliminated by user filtering. No 20 entity dependent filter would therefore be applied in stage 524 for this relationship in this example.

For another example, apply the significance testing to relationship 618 relating to accounts receivables. Assume that in stage 524, a three part significance test is applied by filter 1602 (preferably in sequence). First that current assets be a significant 25 part of total assets (for example above a predetermined threshold percentage or sum),

second that accounts receivables be a significant part of current assets (for example one of two largest current asset categories) and third that the value of the change in accounts receivables 620 is significant (for example above a predetermined percentage and/or dollar amount). For Impreso, current assets was determined to be a significant 5 part of total assets (82% of total assets-see above discussion of relationship<sub>2</sub> 606), and the two most significant current assets had included accounts receivables D726 (see above discussion of relationship<sub>9</sub> 670) Note that the first two parts of the tests can use results of relationship<sub>2</sub> 606 and relationship<sub>9</sub> 670 and therefore in this embodiment, relationship<sub>9</sub> 670 and relationship<sub>2</sub> 606 would preferably have been evaluated before 10 applying the significance test for relationship<sub>5</sub> 618. The third part of the significance test involves one of the linked variables for relationship<sub>5</sub> 618, namely change in accounts receivables 620 which is determined to be significant at \$2,833,986 (calculation D712). In this example, the significance test is passed and therefore the method proceeds with stage 428 for relationship<sub>5</sub> 618 (see above).

15 For another example, apply the significance testing to relationship<sub>6</sub> 630 comparing the entity and the industry (or competitor and/or other entity). Assume that in stage 1524, a two part significance test is applied involving the two linked variables 632 and 634. Either the percentage change in sales for the entity or the percentage change in sales for the industry, other entity (or competitor) needs to be significant (for example 20 above a certain percentage change threshold). In this example both are determined to be significant, the test is passed and the method proceeds with stage 428 for relationship<sub>6</sub> 630 (as described above).

For another example, apply the significance testing to relationship<sub>9</sub> 670 involving types of current assets. Assume that in stage 1524, it is determined if current 25 assets as a percentage of total assets is significant. Because the value of current assets

as a percentage of total assets is determined to be significant, the method proceeds with stage 428 for relationship<sub>9</sub> 670 (see above).

For another example, apply the significance testing to relationship<sub>8</sub> 648. In this embodiment relationship<sub>8</sub> can be modified to exclude change in cash and cash equivalents as a percent of the change in total assets 650 as a linked variable. Instead the value of change in cash and cash equivalents as a percentage of the change in total assets is tested for significance in stage 1524. At a value of 0.27%, the change is determined to be insignificant and therefore relationship<sub>8</sub> is not evaluated, giving rise to appropriate output paragraph (indicating that no significant change has been encountered), or providing no output). Note that had the change been significant, the evaluation of relationship<sub>8</sub> would only need involve the second stage of the two comparison stages described above for the embodiment of Figure 1, i.e. the comparison of the magnitudes of variables 652,654,656,658, 660 and 662 to determine the most significant contributory factor(s) to the change in cash and equivalents.

When a significance test fails, system 1600 may output a statement of insignificance in optional stage 1530. For example in the case of relationship<sub>8</sub> 648, the statement may say “The change in cash and cash equivalents as a percentage of the change in total assets of 0.27% is considered immaterial and will therefore not be discussed”, where the tested variable, change in cash and cash equivalents as a percentage of change in total assets, and the value of the variable are inserted into a standard statement. Alternatively, system 1600 proceeds to analyze the next relationship without commenting on the failure of the previous relationship to pass the test of significance. If the significance test shows that it is insignificant for a given period, but that for another period it is significant, then an appropriate output statement is provided.

Embodiments of the current invention may be used inter-alia by managers and  
salaried employees, entity directors, entity owners, potential investors, bankers and  
credit officers, economists and analysts, brokers and appraisers, accountants, attorneys,  
journalists, tax authorities, financial information agencies, business information  
5 companies, financial websites, financial periodicals, risk capital funds, analyst  
companies, investment banks, insurance companies, rating companies, financial  
advisors, credit rating companies, venture capital funds, government institutes, stock  
exchange, lecturers, students, etc.

Embodiments of the current invention may be used inter-alia for daily  
10 managerial control over current operations, assistance prior to audit, credit check by  
bankers before granting credit, daily control by banks and suppliers with respect to  
financial liquidity and stability, supplier and client check prior to contract negotiations,  
shareholders' monitoring of operations, risk assessment, check by investors,  
shareholders and analysts on results vis-a-vis share activities, due diligence, entity  
15 valuation, viability analysis (going concern), check by investors prior to investing,  
supplementary information for checking sound investments, Provision or interpretation  
of forecasts, breakeven point analysis, investments analysis, required working capital  
analysis, analysis of expected cash flow, provision or interpretation of budget, actual  
versus planed budget comparison and/or analysis, inventory analysis, segmentation  
20 analysis, risk analysis, evaluations of entities or activities, evaluations of securities and  
of debts, sensitivity analysis, etc.; supplementary value assessment, preparation for  
meetings on entity (by shareholders, managers, directors, etc), assistance in preparing  
management discussion and analysis , supplementary information on investment  
profitability, profitability assessment and dividend payment to shareholders, analysis  
25 and surveys by journalists, supplementary information by attorneys, enhancement of

business practices, managerial practices, monitoring municipal and government entities, etc.

The advantages of certain embodiments of the current invention include one or more of the following, inter-alia: First, a full scale analysis or a tailored analysis of an entity can be provided depending on whether the filtering feature is used. Second, the analysis is performed in an unbiased manner. Third, the analysis is preferably executed efficiently and comprehensively, with less likelihood of oversight of important observations. Fourth, the output paragraphs provide a user-friendly interpretation to the financial state of the analyzed entity. Fifth, the analysis may be performed quickly and conveniently when needed, preferably available 24 hours a day and 365 days a year. Sixth, the analysis may be customized to different industries and/or countries and/or languages and/or currencies. Seventh, the analysis can be carried out simultaneously on a large number of entities.

It will also be understood that the system according to the invention may be a suitably programmed computer. Likewise, the invention contemplates a computer program being readable by a computer for executing the method of the invention. The invention further contemplates a machine-readable memory tangibly embodying a program of instructions executable by the machine for executing the method of the invention.

While the invention has been described with respect to a limited number of embodiments, it will be appreciated that many variations, modifications and other applications of the invention may be made.

## APPENDIX A

August 31, 2001

August 31, 2000

## Current assets:

Cash and cash equivalents	\$211,352	\$149,527
Trade accounts receivable, net of allowance for doubtful accounts of \$342,780 at August 31, 2001 and \$168,631 at August 31, 2000	11,748,088	8,914,102
Inventories	38,459,817	21,232,863
Prepaid expenses and other	234,411	234,201
Deferred income tax assets	116,545	57,335
Total current assets	50,770,213	30,588,028
Property, plant and equipment, at cost Less-Accumulate depreciation	21,725,088 (10,511,892)	18,648,715 (9,880,019)
Net property, plant and equipment	11,213,196	8,768,696
Other assets	219,188	26,824
Total assets	\$62,202,597	\$39,383,548

August 31, 2001

## Current liabilities

	<u>August 31, 2000</u>
Accounts payable	\$18,572,200
Accrued liabilities	1,942,241
Current maturities of long-term debt	1,404,562
Line of credit	18,308,338
Current maturities of prepetition debt	7,484
	-----
Total current liabilities	40,234,825
Deferred income tax liability	926,675
Long-term debt, net of current maturities	6,083,279
Long-term portion of prepetition debt, net of current maturities	245,175
	-----
Total liabilities	47,489,954
Commitments and contingencies	25,878,958
Stockholders' equity:	
Preferred stock, \$.01 par value; 5,000,000 shares authorized; 0 shares	---
Issued and outstanding	---
Common stock, \$.01 par value; 15,000,000 shares authorized;	---
5,292,780 issued and 5,278,780 outstanding at August 31, 2001;	52,928
5,292,780 issued and outstanding at August 31, 2000;	52,928

Warrants	110
Treasury stock (14,000 shares, at cost)	---
Additional paid-in capital	(38,892)
Retained earning	6,319,682
	8,378,925
	7,131,980
	---
Total stockholders' equity	14,712,643
	---
Total liabilities and stockholders' equity	\$62,202,597
	=====

## APPENDIX B

	Years Ended August 31,	
	2001	1999
Net sales	\$96,208,411	\$74,117,661
Cost of sales	84,752,004	64,624,852
Gross profit	11,456,407	9,492,809
Other costs and expenses:		
Selling, general and administrative	7,872,633	6,837,737
Interest expense	1,632,581	1,304,369
Other income, net	(72,259)	(137,791)
Total other costs and expenses	9,432,955	8,004,315
Income before income tax expense	2,023,452	1,488,494
Income tax expense:		
Current	725,560	534,273
Deferred	50,947	22,904
Total income tax expense	776,507	557,177
Net income	\$1,246,945	\$931,317
Net income per share (basic and diluted)	\$ .24	\$ 0.18
Weighted average shares outstanding	5,281,583	5,292,780
	=====	=====
	=====	=====

*APPENDIX C*

	Years Ended August 31,		
	2001	2000	1999
<b>Cash flows from operating activities:</b>	<b>\$1,246,945</b>	<b>\$931,317</b>	<b>\$774,352</b>
Net income			
Adjustments to reconcile net income to net cash used in operating activities –			
Cash used in operating activities –	873,976	688,698	544,828
Depreciation and amortization	20,062	(17,019)	(3,901)
Loss (Gain) on sale of property, plant and equipment	103,696	22,904	58,648
Deferred income taxes	1,247,458	(2,618,114)	(61,983)
Decrease (increase) in trade accounts receivable, net	---	478,909	420
Decrease in income tax receivable	(8,192,323)	(2,431,848)	(9,611,042)
Increase in inventory	54,210	(22,374)	93,851
(Increase) decrease in prepaid expenses and other	10,407,363	(2,430,131)	7,474,969
Increase (decrease) in accounts payable	(622,835)	306,090	630,414
(Decrease) increase in accrued liabilities	---	---	---
Net cash provided by (used in) operating activities	5,138,552	(5,091,568)	(99,444)
<b>Cash flows from investing Activities:</b>			
Additions to property, plant and equipment	(1,200,101)	(2,296,553)	(657,735)
Proceeds from sale of property, plant and equipment	14,742	66,400	6,842
Acquisition of sky assets	(12,357,031)	---	---
Change in other assets	(192,364)	(7,371)	8,812

Net cash used in investing activities		(13,734,754)	(2,230,153)	(650,893)
Cash flows from Financing Activities:		-----	-----	-----
Net borrowing on line of credit	5,838,948	6,111,603	755,186	
Payments on prepetition debt	(7,262)	(660,097)	(74,439)	
Net borrowing (payments) on post-petition debt	2,865,233	2,004,484	(34,433)	
Purchase of Treasury Stock	(38,892)	---	---	
	-----	-----	-----	-----
Net cash provided by financing activities	8,658,027	7,455,990	646,314	
Net increase (decrease) in cash and cash equivalents	-----	-----	-----	-----
Cash and cash equivalents, beginning of year	61,825	134,269	(104,023)	
	149,527	22,629	117,840	
	-----	-----	-----	-----
Cash and cash equivalents, end of year	\$211,351	\$156,898	\$13,817	=====
	=====	=====	=====	=====

## APPENDIX D

	T	U=T-Y	V=U/Y	percentage change	W=T/total assets	% of assets
D724	Aug, 31 2001		change in \$			
Current assets						
Cash and cash equivalents	211,352	61,825	D712	41.35%	0.34%	
Trade accounts receivable, net of Allowance for doubtful accounts	11,748,088	2,833,986		31.79%	18.89%	
Inventories	D726	38,459,817	D730	17,226,954	81.13%	
Prepaid expenses and other	234,411	210		0.09%	0.38%	
Deferred income tax assets	116,545	59,210		103.27%	0.19%	
Total current assets	50,770,213	20,182,185		65.98%	81.62%	
Prop, plant equip at cost	D710	21,725,088	3,076,373	16.50%	34.92%	
Less accumulated depreciation		10,511,892	631,873	6.40%	16.90%	
Net property plant and equipment		11,213,196	2,444,500	27.88%	18.03%	
Other assets	219,188	192,364		717.13%	0.35%	
Total assets	62,202,597	22,819,049		57.94%	100.00%	
Current liabilities			D702			
Accounts payable	18,572,200	11,948,424		180.39%	29.86%	
Accrued liabilities	1,942,241	(42,711)		-2.15%	3.12%	
Current maturities of long term	1,404,562	1,156,764		466.82%	2.26%	
Line of credit	18,308,338	5,838,948		46.83%	29.43%	
Current maturities of prepetition	7,484	290		4.03%	0.01%	

	Aug, 31 2001	change in \$	percentage change	% of assets
Total current liabilities	40,234,825	18,901,715	88.60%	64.68%
Deferred income tax liability	926,675	162,906	21.33%	1.49%
Long term debt, net of current	6,083,279	2,553,927	72.36%	9.78%
Long term portion of prepetition	245,175	(7,552)	-2.99%	0.39%
Total liabilities	47,489,954	21,610,996	83.51%	76.35%
<b>Commitments and contingencies</b>				
<b>Stockholders' equity</b>				
Preferred stock		0	0.00%	0.09%
Common stock	52,928	(110)	-100.00%	0.00%
Warrants	(38,892)	(38,892) N/A		
Treasury stock	6,319,682	110	0.00%	-0.06%
Additional paid in capital	8,378,925	1,246,945	17.48%	10.16%
Retained earnings	14,712,643	1,208,053	8.95%	13.47%
<b>Total stockholders' equity</b>	<b>3,23</b>	<b>3,23</b>	<b>23.65%</b>	<b>23.65%</b>
Leverage ratio (total liab/equity)				
Days receivable	44.57	D708	0.67	1.53%
Other current assets	D714	350,956		
Change in cash/change in total assets		D728	0.27%	D718
				D720

	$X=W-Z$ Change in % of assets	$Y$ Aug. 31, 2000	$Z=Y/\text{total assets}$ % of assets
<b>Current assets</b>			
Cash and cash equivalents	-0.04%	149,527	0.38%
Trade accounts receivable, net of Allowance for doubtful accounts	-3.75%	8,914,102	22.63%
Inventories	7.92%	21,232,863	53.91%
Prepaid expenses and other	-0.22%	234,201	0.59%
Deferred income tax assets	0.04%	57,335	0.15%
<b>Total current assets</b>	<b>3.95%</b>	<b>30,588,028</b>	<b>77.67</b>
Prop, plant equip at cost	-12.43%	18,648,715	47.35%
Less accumulated depreciation	-8.19%	9,880,019	25.09%
<b>Net property plant and equipment</b>	<b>-4.24%</b>	<b>8,768,696</b>	<b>22.26%</b>
Other assets	0.28%	26,824	0.07%
<b>Total assets</b>	<b>0.00%</b>	<b>39,383,548</b>	<b>100.00%</b>
<b>Current liabilities</b>			
Accounts payable	13.04%	6,623,776	16.82%
Accrued liabilities	-1.92%	1,984,952	5.04%
Current maturities of long term	1.63%	247,798	0.63%
Line of credit	-2.23%	12,469,390	31.66%
Current maturities of prepetition	-0.01%	7,194	0.02%
<b>Total current liabilities</b>	<b>10.52%</b>	<b>21,333,110</b>	<b>54.17%</b>
Deferred income tax liability	-0.45%	763,769	1.94%
Long term debt, net of current	0.82%	3,529,352	8.96%
Long term portion of pre-petition	-0.25%	252,727	0.64%
<b>Total liabilities</b>	<b>10.64%</b>	<b>25,878,958</b>	<b>65.71%</b>

	$X=W-Z$	$Y$	$Z=Y/\text{total assets}$ % of assets
	Change in % of assets	Aug. 31, 2000	
Stockholders' equity			
Preferred stock	-0.05%	52,928	0.13%
Common stock	0.00%	110	0.00%
Warrants	-0.06%	0	0.00%
Treasury stock	-0.06%	6,319,572	16.05%
Additional paid in capital	-5.89%	7,131,980	18.11%
Retained earnings	-4.64%	13,504,590	34.29%
Total stockholders' equity	-10.64%		

#### Commitments and contingencies

	$X=W-Z$	$Y$	$Z=Y/\text{total assets}$ % of assets
	Change in % of assets	Aug. 31, 2000	
Stockholders' equity			
Preferred stock	-0.05%	52,928	0.13%
Common stock	0.00%	110	0.00%
Warrants	-0.06%	0	0.00%
Treasury stock	-0.06%	6,319,572	16.05%
Additional paid in capital	-5.89%	7,131,980	18.11%
Retained earnings	-4.64%	13,504,590	34.29%
Total stockholders' equity	-10.64%		
Leverage ratio (total liab/equity)			
Days receivable		43.90	
Other current assets			
Change in cash/change in total assets			

43.90

**D716**

## APPENDIX E

	R=inputs Year ended Aug. 31, 2001, \$	S=R-W Change in \$	T=S/W % change	U=R/sales % of sales	V=U-X % of sales change in % sale	
Net sales	96,208,411	22,090,750	29.80%	100.00%	0.00%	
Cost of sales (a)	84,752,004	20,127,152	31.14%	88.09%	0.90%	
Gross profit	11,456,407	1,963,598	20.69%	11.91%	-0.90%	
Other costs and expenses						E802
Selling general and administrative (b)	7,872,633	1,034,896	15.14%	8.18%	-1.04%	
Interest expenses	1,632,581	328,212	25.16%	1.71%	-0.06%	
Other income, net	(72,259)	65,532	-47.56%	-0.08%	-0.11%	
Total other costs and expenses	9,432,955	428,640	17.85%	9.80%	0.99%	
Income before income tax expense	2,023,452	534,958	35.94%	2.10%	0.90%	
Income tax expense						
Current	725,560	191,287	35.80%	0.75%	0.03%	
Deferred	50,947	28,043	122.44%	0.05%	0.02%	
Total	776,507	219,330	39.36%	0.81%	0.06%	
Net income	1,246,945	315,628	33.89%	1.30%	0.04%	
Net income per share (basic and diluted)	0.24					E826
Weighted average shares outstanding	5,281,583					
Operating expenses (c=a+b)	92,624,637	21,162,048	29.61%	96.27%	-0.14%	
Operating income (sales-oper exp)	3,583,774	928,702	34.98%	3.73%	0.14%	
	E828	E820		E832		E822

	W=inputs 2000	X=W/sales % of sales	Y=inputs 1999 % of sales	Z=Y/sales 1999 % of sales
Net sales	74,117,661	100.00%	61,506,207	100.00%
Cost of sales (a)	64,624,852	87.19%	53,844,953	87.54%
Gross profit	9,492,809	12.81%	7,661,254	12.46%
Other costs and expenses				
Selling general and administrative (b)	6,837,737	9.23%	5,605,959	9.11%
Interest expenses	1,304,369	1.76%	832,539	1.35%
Other income, net	(137,791)	-0.19%	(41,971)	-0.07%
Total other costs and expenses	8,004,315	10.80%	10,80%	10.40%
Income before income tax expense	1,488,494	2.01%	1,264,727	2.06%
Income tax expense				
Current	534,273	0.72%	478,390	0.78%
Deferred	22,904	0.03%	11,985	0.02%
Total	557,177	0.75%	490,375	0.80%
Net income	931,317	1.26%	774,352	1.26%
Net income per share (basic and diluted)	0.18		0.15	
Weighted average shares outstanding	5,292,780		5,292,780	
Operating expenses (c=a+b)	71,162,589	96.42%	59,450,912	96.66%
Operating income (sales-oper exp)	2,655,072	3.58%	2,055,295	3.34%
	E830		E834	

**APPENDIX F****902**

The main growth in accounts receivable as appears in the current financial statements is attributed to growth in operations, reflected in sales growth. This has immediate short-term ramifications in growth in cash flow. In the intermediate and long term, should this trend continue, there will be a potential for business expansion, for increasing total operations and for improving cash flow and profitability. It is worth emphasizing that the growth in accounts receivable is not a result of enhanced credit terms granted to customers in increasing credit days, but is rather attributed entirely to the growth in sales and the expansion of total credit as a result of the growth in sales. This can be clearly seen by the fact that the average number of credit days granted to customers in the period of the financial statements is \_\_\_\_\_ credit days, as compared to an average of \_\_\_\_\_ credit days during the previous period (a ....% decline ). Hence, we consider this state of affairs a positive and desirable one, attesting to the potential for expansion and growth in activity. Should these circumstances continue, we will be seeing improved cash flow and profitability both in the short and long terms.

**904**

The increase in accounts receivable as appears in the current financial statements is attributed to growth in operations, reflected in sales growth. This has immediate short-term ramifications of growth in cash flow. Should this trend persist also in future, both in the medium and long term, this will be a potential for business expansion, an increase in total operations and improvement in cash flow and profitability. It is worthwhile emphasizing that the growth in accounts receivable is not a result of enhanced credit terms granted to customers in increasing credit days,

but is rather completely attributed to the growth in sales and the expansion of total credit as a result of the growth in sales. This can be seen clearly by the fact that the average number of credit days granted to customers in the period of the financial statements is \_\_\_\_\_ credit days, similar to the previous period. Hence, we consider  
5 this state of affairs a positive and desirable one, attesting to the potential for expansion and growth in activity. Should these circumstances continue, this will lead to improvement in cash flow and in profitability both in the short and long terms.

### 906

10 The growth in accounts receivable appearing in the current financial statements, appears to have direct ramifications on growth in the sales item. In other words, one can conclude, that the increased credit granted to customers appears to be the main reason for the higher sales. This marketing strategy is reflected in improvement and in the extension of credit granted to customers, leading to growth in sales. Such a  
15 marketing strategy has short-term positive ramifications that will be reflected in growth in cash flow and also in the potential of business expansion and in forecasted growth of total operations. As a result, should this trend continue, improvement in profitability is expected.

Nevertheless, it is worthwhile noting that these circumstances of extended credit  
20 in the form of increased credit to customers, obviously entails an economic price reflected in financing expenses and harm to profitability. Accordingly, if we examine and analyze the overall picture, it can be stated that in the long term, the marketing strategy of increased credit to customers, followed by an increase in the sales item, has potential for growth in profitability and cash flow, but in the short term the price of such  
25 growth is higher financing expenses, harm to cash flow and a decline in profitability.

**908**

The extended credit granted to customers as appears in the current financial statements, comes at a time of also stability in sales, and therefore is mainly attributed  
5 to a delay in collections. These circumstances may be regarded as negative, attesting to difficulties and slower operations and/or more intense competition and the desire to maintain market share. The granting of extended credit to customers obviously entails an economic price in the form of financing expenses. This is a negative phenomenon and its short-term ramifications will be expressed in a decline in cash flow in addition to  
10 the decline in profitability, attesting to difficulties in operations as reflected in the sales item, as well as in customer collections.

It is possible that the slower collections of customer debt can be attributed to difficulties faced by the customers themselves. Such a situation clearly arouses concern, both with respect to the collection of past debts, and certainly with regard to  
15 the future business relations with these customers and the potential sales as a result.

However if the extended credit to customers is part of a marketing effort, in an attempt to encourage and increase total sales in future, this definitely possesses potential for business expansion and for growth in total operations.

In conclusion, an overall observation of the data of slower collections together  
20 with stability in sales, or in other words - higher customer credit not supported by growth in the sales item – is negative and undesirable, attesting to potential harm to profitability and to cash flow.

**910**

The extended credit granted to customers as appears in the current financial statements, comes at a time when there is also a reduction in sales, and therefore is attributed mostly to the delay in collections. These circumstances should be viewed as  
5 negative, attesting to difficulties and slower operations and/or more intense competition and the desire to maintain market share. The granting of extended credit to customers obviously entails an economic price in the form of financing expenses. This is a negative situation and its short-term ramifications will be expressed in a decline in cash flow in addition to the decline in profitability, attesting to difficulties in operations as  
10 reflected in the sales item, as well as in customer collections.

It is possible that the slower collections of customer debt can be attributed to difficulties faced by the customers themselves. Such a situation clearly arouses concern, both with respect to the collection of past debts, and certainly with regard to the future business relations with these customers and the potential sales as a result.

15 However if the extended credit to customers is a marketing effort, in an attempt to encourage and increase total sales in future, this definitely possesses potential for business expansion and for growth in total operations.

In conclusion, an overall observation of the data of slower collections together with a decline in sales, or in other words - higher customer credit not supported by  
20 growth in the sales item – is a negative and undesirable situation, attesting to potential harm to profitability and to cash flow.

**912**

The decline in accounts receivable as appears in the current financial statements is attributed to a weakening of activity, reflected in lower sales. This has immediate  
25 short-term ramifications on a reduction in cash flow. In the intermediate and long term,

should this trend persist, there is the potential for a standstill in business activity, which will adversely affect cash flow and profitability. An additional point worth noting is that the decline in accounts receivable (total credit) comes at a time when credit terms are also deteriorating, reflected in the contraction of the number of days of credit. This  
5 may likely be the main reason for the reduced sales, since a deterioration in customer credit terms, generally leads to a loss of customer motivation and in an extreme case, even the defection of customers to the competitors. This is certainly an undesirable situation, with the potential of contraction in overall activities and may very well hamper the corporation's cash flow and profitability in both the short and long terms.

10

**914**

The decrease in accounts receivable as appears in the current financial statements, is attributed to a contraction in operations as reflected in reduced sales. This phenomenon has immediate short-term ramifications in a reduction of cash flow.

15 Should this trend persist also in future, both in the medium and long term, this has the potential for a slowdown and contraction in business activity, a decline in total operations and a deterioration in cash flow and profitability. It is worthwhile emphasizing that the contraction in accounts receivable is not a result of a deterioration in credit terms granted to customers by reducing credit days, but rather  
20 this is attributed entirely to the reduction in total sales and the contraction in total credit as a result of the lower sales. This can clearly be seen by the fact that the average number of credit days granted to customers in the period of the financial statements is \_\_\_\_\_ credit days, as compared to an average of \_\_\_\_\_ credit days during the previous period. Hence, we consider this state of affairs a negative  
25 and undesirable one, attesting to a potential for contraction and slowdown in activity.

Should these circumstances continue, this will lead to a deterioration in cash flow and profitability both in the short and long terms.

**916**

5       The reduction in accounts receivable as appears in the current financial statements, is affected by the lower sales and in parallel also influences this decline. Measures that would be called for, in the company's attempt to increase sales, would be to improve customer credit by extending credit days in order to encourage customers to increase purchases. The average number of customer credit days during the period of  
10      the statements indeed grew and stands at \_\_\_\_\_ credit days as compared to an average of ..... credit days during the previous period (.....% growth). This is a marketing strategy with negative ramifications on financing expenses and profitability in the short term. Any growth in customer credit requires the search of financing sources and these naturally have a cost, by increasing financing expenses in the income  
15      statement. Nevertheless, one should not ignore the objective behind such a move. The intention of the extended customer credit is to eventually increase sales to a considerable extent and that growth in sales will be significantly higher than the growth in financing expenses.

Therefore, if we examine and analyze the overall picture in the near term, there  
20      is the growth in financing expenses and as result harm to profitability and cash flow, versus the target of sales growth with enhanced profitability and cash flow in the longer term.

**918**

The contraction in credit as appears in the current financial statements comes at a time of stability in sales, revealing that the reason for the contraction in credit is mainly attributed to accelerated debt collection. This should be viewed as positive 5 circumstances, attesting to successes in the debt collection activity. The reduced credit to customers has, of course, an economic advantage in the form of savings in financing expenses. This is a positive state of affairs, with positive ramifications in the short term of growth in cash flow, in addition to higher profitability.

It may well be that the acceleration of debt collection reflects the positive 10 development at the customers. This is undoubtedly a promising situation in terms of the collection of past debts and certainly in terms of the continued business ties with these customers as well as the potential for future sales. If the reduction in credit to customers has been made for financing reasons in an attempt to minimize total financing expenses at a later date, this also has a potential for profitability.

15 In conclusion, an overall examination of the data of accelerated debt collection together with stability in sales or, in other words - reduced credit to customers which is not supported by higher sales – is, on the one hand, a positive dimension of management's ability to increase debt collection but, on the other hand, demonstrates inferior sales and business operations.

20

**920**

The contraction in credit as appears in the current financial statements comes at a time of growth in sales, demonstrating that the reason is mainly attributed to accelerated debt collection. This is a positive state of affairs, attesting to successful and 25 accelerated business operations. The granting of reduced credit to customers has, of

course, an economic advantage in the form of savings in financing expenses. This is a positive state of affairs, whose positive ramifications in the short term are growth in cash flow, in addition to higher profitability. The above attests to successful business operations reflected in the sales item, as well as in customer debt collection.

5 It may well be that the acceleration of debt collection reflects positive developments at the customers. This is undoubtedly a promising situation in terms of the collection of past debts and certainly in terms of the continued business ties with these customers as well as the potential for sales as a result. If the reduction in credit to customers was made for financing reasons in an attempt to minimize total financing  
10 expenses in the future, this also has a potential for profitability.

In conclusion, an overall examination of the data of accelerated debt collection together with growth in sales or, in other words - reduced credit to customers supported by higher sales – is a positive dimension of management's ability to increase debt collection resulting in enhanced profitability and cash flow.

15

## 922

Accounts receivable in the current financial statements remains essentially unchanged in relation to the previous period, despite the increased activity, as reflected in sales growth. This demonstrates that measures have been taken to reduce credit to  
20 customers, which has positive ramifications on cash flow and profitability. This is also reflected in the reduction of customer credit days. This is a very desirable situation and may be attributed to one or more of the following reasons:

- Growth was exhibited in sales without the need to increase credit to customers.
- The customers have no liquidity problems.

25

**924**

In the current financial statements, the accounts receivable item remained essentially unchanged as compared to the previous period, despite the decline in sales.

Such a situation is undesirable and can be attributed to one or more of the following

5 reasons:

- Extended credit to customers, in order to reduce the constant decline in sales.
- Difficulties faced by customers, causing a delay in debt collection.
- A time lag which was created between the decline in sales and actual debt collection, since credit was granted to customers in the previous period, prior to

10 the decline sales.

The practical significance of lower sales, on the one hand, and accounts receivable remaining materially unchanged on the other, is that of higher credit granted to

customers. This credit, as mentioned earlier entails an economic price in the form of

15 financing expenses. The growth in credit together with the decline in total sales is a negative situation attesting to difficulties and a slowdown in operations. The short-term ramifications will be a fall in cash flow in addition, of course, to lower profitability. A comprehensive view shows that the data attest to difficulties in marketing activity.

If the slow-down in customer debt collection is attributed to difficulties faced by the  
20 customers, this should raise concerns regarding the collection of past debts, and certainly with respect to the continued business ties with these customers and the potential sales as a result. However, if the extended credit to customers is a marketing strategy, aiming to encourage and increase future sales, this indeed holds the potential for expansion in business operations and total activity.

**926**

In the current financial statements, the accounts receivable item remains essentially unchanged relative to the previous period, at a time when the sales item also  
5 remains essentially unchanged as compared to the previous period. These facts are obviously reflected in the average number of credit days extended to customers which during the period of the financial statements stood at \_\_\_\_\_ credit days. In other words, no essential change. The data demonstrates stability in marketing activity, and therefore the question is why isn't there growth in sales? A state of stability often  
10 has advantages in various market conditions, but it may lead to a downturn in business activity and eventually to recession.

A state of stability in sales and in customer credit requires caution and supervision over business results in the subsequent quarters, in order to ascertain whether this is only a temporary state or whether the signals show the beginning of a  
15 downturn in business activity.

**APPENDIX G****1002**

..... - Similarly to the trend in the industry, the sales in the Financial  
5 Statements is also rising relative to the previous period. The average growth in the  
industry between the two periods is \_\_\_\_\_ %, compared with an increase in sales of  
\_\_\_\_\_ % in the present Financial Statements.

**1004**

10 ..... - Similarly to the trend in the industry, the sales in the Financial  
Statements is also decreasing in relation to the previous period. The average decline in  
the industry between the two periods is \_\_\_\_\_ %, compared with a drop in sales of \_\_\_\_\_ %  
in the present Financial Statements.

**1006**

..... - Similarly to the trend in the industry, the sales in the Financial  
Statements also remains without material change relative to the sales in the previous  
period.

**1008**

..... - Contrary to the figures in the Financial Statements, the average sales  
in the industry showed a rising trend relative to the previous period. The average  
increase in the industry was at the rate of \_\_\_\_\_ %, compared to the drop in sales at the rate  
of \_\_\_\_\_ % in the Financial Statements before us.

**1010**

..... - Contrary to the figures in the present Financial Statements, the average sales in the industry showed a declining trend relative to the previous period. The average drop in the industry was at the rate of \_\_\_\_%, compared to the rise in sales  
5 at the rate of \_\_\_\_% in the Financial Statements.

**1012**

..... - Contrary to the figures in the Financial Statements, the average sales in the industry is stable and remains with no material change relative to the previous period, compared to the decline in sales at the rate of \_\_\_\_\_% in the Financial  
10 Statements before us.

**1014**

..... - Contrary to the figures in the Financial Statements, the average sales in the industry show a rising trend relative to the previous period. The average increase  
15 in the industry is at the rate of \_\_\_\_\_%, compared to the stability and no material change in sales in the Financial Statements.

**1016**

..... - Contrary to the figures in the Financial Statements, the average sales  
20 in the industry show a declining trend relative to the previous period. The average decrease in the industry is at the rate of \_\_\_\_\_%, compared to the stability and no material change in sales in the Financial Statements.

**1018**

..... - Contrary to the figures in the Financial Statements, the average sales in the industry is stable and remains with no material change relative to the previous period, compared to the rise in sales at the rate of \_\_\_\_\_% in the Financial Statements.

APPENDIX H1102

In addition to the growth in total operating income during the period of the financial statements, there was also a rise in the ratio of operating income out of sales. The growth in operating income is attributed to growth in sales of .....%, together with a lower percentage of growth in operating expenses which were higher by a mere.....%, i.e. a widening of the gap between sales and operating expenses.

The significance of the higher operating income from the management aspect is that there is efficiency both in absolute and relative terms, when resources are properly utilized. This efficiency is reflected in sales growth and on the other hand, it is being achieved with relatively lower operating expenses, in generating total sales.

15    1104

In addition to the growth in total operating income during the period of the financial statements, there was also a rise in the ratio of operating income out of sales. The growth in operating income is a result of two contradicting factors. One is the growth in sales by .....% relative to the previous period and on the other hand, the decline in operating expenses. In other words, a widening of the gap between sales and operating expenses.

The significance of the higher operating income from the management aspect, is that there is efficiency both in absolute and relative terms, and also a proper utilization

of resources. This efficiency is reflected in sales growth and on the other hand it is being achieved with less operating expenses, in generating total sales.

**1106**

5 In addition to the growth in total operating income during the period of the financial statements, there was also a rise in the ratio of operating income out of sales. The growth in operating income is attributed to two factors. First, growth exhibited in sales of ...%, relative to the previous period and second, there was no essential change in operating expenses, which amounted to \$..... (as compared to \$..... during the  
10 previous period). In other words, there was a widening of the gap between sales and operating expenses.

The significance of the higher operating income from the management aspect, is that efficiency is exhibited both in absolute and relative terms, and there is a proper utilization of resources. This efficiency is reflected on the one hand in sales growth and on the other hand, it is being achieved with a similar amount of operating expenses, in generating total sales.  
15

**1108**

20 In addition to the growth in total operating income during the period of the financial statements, there was also a rise in the ratio of operating income out of sales. This two-fold growth in operating income occurred despite the decline in sales, indicating that the ratio of decline in operating expenses was greater than the contraction in sales. In other words, there was a widening of the gap between sales and  
25 operating expenses.

As a result there was a fallback in business operations owing to the lower sales, despite the positive signs of growth in operating income and in the ratio of operating income out of sales. This positive aspect comes at a time of contraction in sales together with a narrowing of costs and expenses, revealing efficiency and proper utilization of resources.

**1110**

In addition to the growth in total operating income during the period of the financial statements, there was also a rise in the ratio of operating income out of sales. This was attributed to two factors. One is stability in sales as compared to the previous period, and concomitant with this stability, operating expenses were lower by \_\_\_\_\_. \_\_\_\_\_. In other words, there was a widening of the gap between sales and operating expenses.

15

This growth in operating income is a positive indicator, from the point of view of management since parallel with stability in sales, there is a decline in costs and expenses, attesting to efficiency and better utilization of resources.

**1112**

In addition to the decline in total operating income during the period of the financial statements, there was also a decline in its ratio out of sales. The decline in the ratio of operating profit is attributed to a fall in sales (\$ \_\_\_\_\_) parallel with a more moderate reduction in operating expenses (\$ \_\_\_\_\_). In other words, there was a narrowing of the gap between sales and operating expenses.

25

The decline in operating income is a negative indicator, both in terms of the business and management aspects, and this is problematic. Its reflection in the financial results is apparently attributed to inefficient operations and a failure to properly utilize resources. Inefficiency is reflected both in absolute terms, exhibited in lower operating income, and in relative terms, as demonstrated in the reduction of the ratio of operating income out of sales.

#### **1114**

In addition to the reduction in total operating income during the period of the financial statements, there was also a decline in the ratio of operating income out of sales. The reduction in operating income and also its lower ratio out of sales is a result of two contradicting factors. One, the decline in sales by \$..... as compared to the previous period and on the other hand, the rise in operating expenses totaling \$..... i.e. a narrowing of the gap between sales and operating expenses.

15

The decline in operating income and in its ratio out of sales is a negative sign both in terms of the business and management aspects, and this is problematic. Its reflection in the financial results is apparently attributed to inefficient operations and a failure to properly utilize resources. Inefficiency is reflected both in absolute terms, exhibited in lower operating income, and in relative terms, as demonstrated in the reduction of the ratio of operating income out of sales.

#### **1116**

In addition to the reduction in total operating income during the period of the financial statements, there was also a decline in the ratio of operating income out of sales. This was attributed to two factors. One is the decline in sales totaling \$..... as

compared to the previous period, and concomitantly there was stability in operating expenses. In other words, there was a narrowing of the gap between sales and operating expenses.

5 This decline in operating income and in its ratio out of sales is a negative sign both in terms of the business and management aspects, and this is problematic. Its reflection in the financial results is apparently a result of inefficient operations and a failure to properly utilize resources. Inefficiency is reflected both in absolute terms, exhibited in lower operating income, and in relative terms, as demonstrated in the  
10 reduction of the ratio of operating income out of sales.

### 1118

Despite the growth in sales as compared to the previous period, operating income was lower in addition to the decline in the ratio of operating income out of sales.  
15 This is attributed to the fact that operating expenses rose at a steeper rate than growth in sales. In other words, there was a narrowing of the gap between sales and operating expenses.

This decline in operating income and in its ratio out of sales is a negative sign  
20 both in terms of the business and management aspects, and this is problematic. Its reflection in the financial results is apparently a result of inefficient operations and a failure to properly utilize resources. Inefficiency is reflected both in absolute terms, exhibited in lower operating income, and in relative terms, as demonstrated in the reduction of the ratio of operating income out of sales.

**1120**

In addition to the reduction in total operating income during the period of the financial statements, there was also a decline in the ratio of operating income out of sales. This was attributed to two factors. One is the stability exhibited in sales as compared to the previous period and concomitantly, operating expenses grew by .....%. In other words, there was a narrowing of the gap between sales and operating expenses.

This decline in operating income is obviously a negative sign in terms of the management aspect, since stability in sales is accompanied with a deterioration in the utilization of resources both in absolute and relative terms. Sales were achieved at a higher cost than in the previous period.

**1122**

Despite the growth in total operating income during the period of the financial statements, its ratio out of sales remained essentially unchanged. The stability in operating income is attributed to the .....% growth in sales and also to a similar rise in operating expenses. Ultimately, there was a widening of the gap between sales and operating expenses.

20

The significance of this rise in operating income in absolute terms is business expansion and growth in total operations, and this is definitely a positive indication. Nevertheless, the results point to limited success, since there has not been a more efficient utilization of resources as compared with the previous period. This conclusion

is reflected in the static nature of the rate of operating income out of sales. In other words, management did not succeed in increasing sales at a lower cost.

**1124**

5       Despite the decline in total operating income during the period of the financial statements, its ratio out of sales remained without any essential changed. The stability exhibited in the ratio of operating income out of sales is attributed to a .....% decline in sales concomitantly with a similar decline in operating expenses. In other words, there was a narrowing of the gap between sales and operating expenses.

10

This reduction in operating income is not a positive indicator from the business aspect. It is the result of a reduction in total operations. There is, however, a positive side to these business results, as reflected in the stability of the ratio of operating income as compared to the previous period. That is to say, management succeeds in 15 maintaining a proper level of utilization of resources. In this manner, management sends a message that it is in control of operations, quickly adapting to the new situation created, despite the decline in activity. Despite the difficult business environment, at the management level, it appears that matters are under control.

20      **1126**

During the period of the financial statements, there was no material change in total operating income as compared to the previous period and also its ratio out of sales remained essentially unchanged. The stability in the rate of operating income is attributed to the stability demonstrated in sales and in operating expenses, which

remained essentially unchanged as compared to the previous period. In other words, there was stability in the gap between sales and operating expenses.

**1128**

5       The financial results display a rise in total operating income during the period of the financial statements, and concomitantly, a decline in its ratio out of sales. The growth in operating income as compared to the previous period, is obviously attributed to the growth in sales between the two periods (\$.....). In contrast, as mentioned, there was a decline in the ratio of operating income out of sales and this is attributed to the  
10      fact that there was a more moderate growth in sales (of .....%) as compared to the growth in operating expenses (of .....%).

The significance of this rise in operating income in absolute terms, is business expansion and growth in total operations, and this is definitely a positive indication.  
15      Nevertheless, the results point to limited success, since there has not been a more efficient utilization of resources as compared with the previous period. This conclusion is reflected in the decline in the ratio of operating income out of sales. In other words, management did not succeed in increasing sales at a lower cost.

**1130**

20      The financial results display a decline in total operating income during the period of the financial statements, and concomitantly, growth in its ratio out of sales. The decline in operating income as compared to the previous period, is obviously attributed to the decline in sales between the two periods (\$.....). In contrast, as  
25      mentioned, there was an increase in the ratio of operating income out of sales and this is

attributed to the fact that there was a more moderate decline in sales (of .....%) as compared to the decline in operating expenses (of .....%).

- This decline in operating income in absolute terms, is not a positive indication.
- 5 However, there is a positive side to the current situation, and that is the relative increase in efficiency. This is reflected in that, despite the lower sales, the reduced cost in generating such sales is much more significant. This certainly is positive, however, the bottom line, operating income, is measured in absolute amounts of money, and here the success was not satisfactory, compared to the previous period.

10

### 1132

- Despite the stability in total operating income during the period of the financial statements, concomitantly there was in fact a rise in the ratio of operating income out of sales. The growth in operating income is attributed to the more moderate decline in 15 sales ( of .....%) as compared to the decline in operating expenses (.....%).

- This stability in operating income in absolute terms, despite the decline in sales is a positive indication since it reflects increased efficiency. This is being expressed in the cost of generating sales. This certainly is positive, however, the bottom line, 20 operating income, is measured in absolute amounts of money, and here the success was not complete, compared to the previous period.

### 1134

Despite the stability in total operating income during the period of the financial statements, there was in fact a decline in the ratio of operating income out of sales. The

decline in operating income is attributed to the more moderate growth in sales (of .....%) as compared to the growth in operating expenses (of .....%).

The stability in absolute terms in operating income despite the growth in sales is  
5 not a positive indication, since it reflects unproductive utilization of resources and  
inefficiency. This is reflected in the higher cost of generating such sales.

*APPENDIX I*

Years ended August 31

	2001	2000	1999	
Cash flow from operating activities	1,246,945	931,317	774,352	
Net income				
Adjustments to reconcile				
Depreciation and amortization	873,976	688,698	544,828	
Loss (gain) on sale of pp&e	20,062	(17,019)	(3,901)	
Deferred income tax	103,696	22,904	58,648	
Decrease (increase) in trade accounts receivable, net	1,247,458	(2,618,114)	(61,983)	
Decrease in income tax receivable		478,909	420	
Increase in inventory	(8,192,323)	(2,431,848)	(9,611,042)	
(Increase) decrease in prepaid expenses and other	54,210	(22,374)	93,851	
increase (decrease) in accounts payable (decrease) increase in accrued liabilities	10,407,363 (622,835)	(2,430,131) 306,090	7,474,969 630,414	
net cash provided by (used in) op activities	5,138,552	(5,091,568)	(99,444)	
	11202			
Cash flow from investing activities				
Additions to pp&e	(1,200,101)	(2,296,553)	(657,735)	
Proceeds from sale of pp&e	14,742	66,400	6,842	
Acquisition of Sky assets	(12,357,031)			
Change in other asset	(192,364)	(7,371)	8,812	
Net cash used in investing activities	(13,734,754)	(2,237,524)	(642,081)	
	11204			



**APPENDIX J****1302**

The principal increase in cash and cash equivalents is provided by operating activities, i.e. sales receipts less payment of expenses (totaling \$\_\_). This is, of course, the natural and ideal source, and represents a desirable situation whereby receipts are higher than payments of expenses. The surplus cash from operating activities should be used both for investment in assets and operating activities, as well as for payment of liabilities to credit providers and dividends to owners.

10

Cash provided by operating activities can provide security for investors with respect to the ability to utilize periods of crisis on the market in order to improve positions.

15    **1304**

The principal growth in cash and cash equivalents derives from capital raising, totaling \$ \_\_\_\_\_. Since that is the case, the surplus accumulated cash and cash equivalents is for an interim period until the management utilizes it in accordance with the targets determined during the capital raising operation.

20

In a situation where the increase in cash derives from capital raising, an examination must be made of the ability to generate cash from operating activities both in the near future and in the long term, but this can be seen in future Financial Statements.

25

**1306**

The principal rise in cash and cash equivalents is provided by obtaining credit through loans/debentures, and as aforesaid, totals \$ \_\_\_\_\_. Because of the gap 5 between the surplus cash yield from short-term investments, and the cost of financing loans/debentures, it may be anticipated that these cash and cash equivalents will be utilized within a short time.

**1308**

10 The growth in cash and cash equivalents is provided principally from the proceeds of realizing assets, and as aforesaid, amounts to \$ \_\_\_\_\_.  
15

**1310**

The principal decline in cash and cash equivalents, amounting to \$ \_\_\_\_\_, 15 derives from operating activities, i.e. payments of expenses are higher than sales. This use of cash and cash equivalents is not a positive signal, and represents a lack of profitability, which consumes in addition to financing sources for operating activities, also the financing for investments in assets and repayment of loans to credit providers. In such a situation there is no possibility of distributing dividends or benefiting 20 shareholders.

**1312**

The principal decline in cash and cash equivalents derives from repayment of loans/debentures, amounting to \$ \_\_\_\_\_.  
25

**1314**

The principal decline in cash and cash equivalents, caused by the acquisition of fixed assets/holdings in corporations (see also reference to this issue under the item Fixed Assets/Holdings in Corporations), amounts to \$ \_\_\_\_\_, as aforesaid. This 5 is a worthwhile policy, whereby cash and cash equivalents, which are not generally reputed to produce high yields, are replaced by assets which will generate growth in the production of sales.

**1316**

10 The principal decline in cash and cash equivalents caused by the payment of a dividend to shareholders, amounts to \$ \_\_\_\_\_. This allocation of cash and cash equivalents to shareholders has both a negative and a positive aspect. Payment of a dividend to shareholders is harmful to cash flow and reduces assets in general, and the corporation's value derived there from in particular. But, on the other hand, such 15 activity constitutes a positive stimulus to shareholders, both present and future.

**1318**

The principal decline in cash and cash equivalents which flows from the repurchase of shares amounts to \$ \_\_\_\_\_, as aforesaid. In the short term, the question arises as to the necessity for such a step, since cash and cash equivalents have 20 been expended with no other assets coming in to replace them. As a result, there is a reduction in assets, and in the corporation's value derived there from. On the other hand, the advantage derived by the remaining shareholders from buying back the shares is clear, since the relative proportion of their holdings rises as a result of such action.

**1320**

The cash and cash equivalents in the Financial Statements as at \_\_\_\_\_ amount to \$\_\_\_\_\_ compared to \$\_\_\_\_\_ in the previous period. The significance of these amounts is that there is no material change in the amount of the  
5 cash and cash equivalents.

APPENDIX K1402

.....

5 # Cash in the amount of \$ \_\_\_\_\_, constituting \_\_\_\_\_% of the current assets.

1404

.....

10 # Short term investments amounting to \$ \_\_\_\_\_, constituting \_\_\_\_\_% of the current assets.

1406

.....

# Accounts receivable amounting to \$ \_\_\_\_\_, constituting \_\_\_\_\_% of the current assets.

15

1408

.....

# Other receivables, non-commercial debtors amounting to \$ \_\_\_\_\_, constituting \_\_\_\_\_% of the current assets.

20 1410

.....

# Inventory in the amount of \$ \_\_\_\_\_, constituting \_\_\_\_\_% of the current assets.